



LUMNITE® SG / LUMNITE® SG5 / Lumnite / Lumnite MG / Lumnite MG4 / Refcon MG

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : LUMNITE® SG / LUMNITE® SG5 / Lumnite / Lumnite MG / Lumnite MG4 / Refcon MG
Chemical name : Cement, alumina, chemicals
CAS-No. : 65997-16-2

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Hydraulic binder for the production of building chemistry mixes and building material technology as well as for the production of refractory mortar and concrete.
Use of the substance/mixture : Building materials
Binding agent

1.3. Supplier

CALUCEM INC
1275 Glenlivet Drive, Suite 100
Allentown, PA 18106
USA

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Dust : May cause irritation to the respiratory tract. Direct contact may result in corneal injury. According to concentration, aqueous solution causes irritation or burns of eyes, skin and mucous membranes.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name : Cement, alumina, chemicals
CAS-No. : 65997-16-2

Name	Product identifier	%	GHS US classification
Cement, alumina, chemicals	CAS-No.: 65997-16-2	> 99.5	Not classified

Full text of hazard classes and H-statements : see section 16

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3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

No additional information available

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : According to concentration, aqueous solution causes irritation or burns of eyes, skin and mucous membranes.

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. May cause shortness of breath, tightness of the chest, a sore throat and cough.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Unsuitable extinguishing media : high volume water jet.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Knock down dust with water spray. Use extinguishing media appropriate for surrounding fire.

Other information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Measures in case of dust release : Knock down dust with water spray.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Highly exothermic reaction with water.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure good ventilation of the work station.
Incompatible materials : Oxidizing materials. Strong acids.
Heat-ignition : Presents no particular fire or explosion hazard.
Information on mixed storage : Keep away from (strong) acids. Keep away from oxidizing agents.
Storage area : Keep in original containers. Keep cool. Protect from sunlight. Protect from humidity and water.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Cement, alumina, chemicals (65997-16-2)

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile impregnated cotton gloves	6 (> 480 minutes)	0,4	

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powders.
Color : brown Gray pale beige
Odor : odorless
Odor threshold : No data available
pH : < 11.5
pH solution concentration : 10 %
Melting point : 1270 – 1440 °C
Freezing point : No data available
Boiling point : No data available
Flash point : No data available

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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 3 – 3.3
Solubility	: Practically insoluble in : Water. Water: < 1.5 g/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing agent. Strong acids. Incompatible with water, humid air.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Cement, alumina, chemicals (65997-16-2)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

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Skin corrosion/irritation : Not classified
pH: < 11.5

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pH	11.4 Temp.: 25 °C Concentration: 10 g/L

Serious eye damage/irritation : Not classified
pH: < 11.5

Cement, alumina, chemicals (65997-16-2)	
pH	11.4 Temp.: 25 °C Concentration: 10 g/L

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects : According to concentration, aqueous solution causes irritation or burns of eyes, skin and mucous membranes.
Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. May cause shortness of breath, tightness of the chest, a sore throat and cough.

SECTION 12: Ecological information

12.1. Toxicity

Cement, alumina, chemicals (65997-16-2)	
LC50 - Fish [1]	100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	5.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	3.6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

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Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Additional information : Waste code can not be determined according to the European waste catalog (EWC), since it depends on the use of the product. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
Transport document description			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Cement, alumina, chemicals (65997-16-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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Contains no substances regulated under Section 6(h) of the Toxic Substances Control Act (TSCA) (40 CFR 751.401-751.413)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.